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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,582	01/23/2004	Qinghua Zeng	HSJ920030263US1	7707
44425	7590	08/23/2005		
THOMAS R. BERTHOLD 18938 CONGRESS JUNCTION COURT SARATOGA, CA 95070			EXAMINER CHERRY, STEPHEN J	
			ART UNIT 2863	PAPER NUMBER
DATE MAILED: 08/23/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental

Notice of Allowability

Application No.

10/763,582

Examiner

Stephen J. Cherry

Applicant(s)

ZENG, QINGHUA

Art Unit

2863

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12-27-2004.
2. ☒ The allowed claim(s) is/are 1 and 3-30.
3. ☒ The drawings filed on 23 January 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____. | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

This action indicates allowance of claims 27-30, which were inadvertently not addressed in the Office Action dated 3-25-2005.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Berthold on 3-9-2005 and 7-25-2005.

The application has been amended as follows:

Replace claim 1 with:

1. (Currently Amended) A method for adjusting a static torque on a slider in a head-suspension assembly comprising:

measuring a static attitude component of the slider;

determining the attitude component torsional stiffness of the head-suspension assembly by determining the attitude component effective moment-of-inertia of the slider;

calculating, from the measured static attitude component and the determined torsional stiffness, the adjustment of the static attitude component required to achieve the desired static torque; and

adjusting the static attitude component.

Cancel claim 2.

2. (Cancelled)

Replace claim 3 with:

3. (Currently Amended) The method of claim 1 wherein determining the moment-of-inertia comprises calculating the moment-of-inertia from the known geometry and material composition of the head-suspension assembly.

Replace claim 27 with:

27. (Currently Amended) The method of claim 26 wherein vibrating the slider comprises directing air flow to the slider.

Allowable Subject Matter

Claims 1 and 3-30 allowed.

The following is an examiner's statement of reasons for allowance:

The independent claim 1 recites "calculating, from the measured static attitude component and the determined torsional stiffness, the adjustment of the static attitude component required to achieve the desired static torque". This feature in combination with the remaining claimed structure avoids the prior art of record.

The independent claim 15 recites "determining the pitch torsional stiffness of the head-suspension assembly by determining the effective moment-of-inertia of the slider about the pitch axis and measuring the pitch natural frequency of the slider". This feature in combination with the remaining claimed structure avoids the prior art of record.

The independent claim 23 recites "determining the roll torsional stiffness of the head-suspension assembly by determining the effective moment-of-inertia of the slider about the roll axis and measuring the roll natural frequency of the slider". This feature in combination with the remaining claimed structure avoids the prior art of record.

U.S. Patent 5,473,488 to Gustafson does not disclose adjusting attitude using a moment of inertia.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

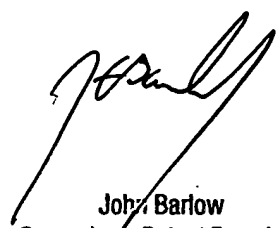
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Cherry whose telephone number is (571) 272-2272. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SJC



John Barlow
Supervisory Patent Examiner
Technology Center 2800